EPA's Water Awareness Technology Evaluation Research Security (WATERS) Center



WATERS Center is located at EPA's Test & Evaluation Facility in Cincinnati, Ohio

Goals

- ◆ Evaluate Sensor Technologies.
- ◆ Understand Contaminant Behavior in Distribution Systems.
- ◆ Evaluate Advanced Water Treatment Systems

Scope

- ◆ Chemical-Biological Warfare Agent Surrogates
- ◆ Toxic Industrial Chemicals
- Common Pathogens
- Pesticides / Herbicides

Early Warning Systems

- Existing Sensor Technologies
- Developing Sensor Technologies.
- Bio-sentinels

Existing Sensor Technologies







ensor & Probe Multi Sensor P

Developing Sensor Technologies.





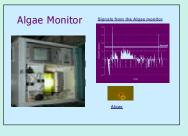


Bio-sentinels











Distribution System Simulators

- ◆ Sensor Technology Evaluations
- ◆ On-line and Early Warning
- ◆ One-of-Kind Simulator





Advanced Treatment Technologies

◆ Ultrafiltration, Microfiltration, Disinfection

<u>Ultrafiltration</u>







Distribution System Decontamination





- Designed and Fabricated T&E
- ◆ Sensor, Sampling, Modeling, & Decon.
- IAG's
- National Institute of Standards and Tech. (NIST)
- Naval Surface Warfare Center (NAVSEA)
- Edgewood Chemical & Biological Center (ECBC)

www.epa.gov/ordnhsrc/index.htm